

## Claims

1. An optical pickup characterized by including:
  - a moving base which moves itself in the direction
  - 5 of radius of a disc-formed recording medium set on a disc table;
  - an objective lens driver disposed on the moving base;
  - a plurality of light-emitting elements differed in
  - 10 type, each of which emits, towards a plurality of disc-formed recording media differed in type, laser beam of a wavelength of approximately 405 nm, approximately 660 nm or approximately 780 nm corresponded to each of the disc-formed media;
  - 15 an objective lens which condenses each laser beam onto a recording surface of said disc-formed recording medium; and
  - a light-receiving element which receives the laser beam emitted from said light-emitting elements, and
  - 20 characterized in that:
    - said objective lens condenses the laser beam onto the recording surface of the disc-formed recording medium to thereby form an elliptic beam spot;
    - a long axis of a beam spot of said laser beam
    - 25 having a wavelength of approximately 660 nm is aligned in a direction  $45^{\circ}$  to  $65^{\circ}$  away from a tangential direction of the disc-formed recording medium; and
    - a long axis of a beam spot of said laser beam having a wavelength of approximately 405 nm is aligned in
    - 30 a direction  $25^{\circ}$  to  $45^{\circ}$  away from the tangential direction of the disc-formed recording medium.

2. The optical pickup as claimed in Claim 1,  
characterized in that a long axis of a beam spot of said  
laser beam having a wavelength of approximately 780 nm is  
5 aligned in a direction  $45^{\circ}$  to  $65^{\circ}$  away from the  
tangential direction of the disc-formed recording medium.

3. A disc drive apparatus having a disc table on  
which a plurality of disc-formed recording medium  
10 differed in type is independently set and rotated,  
characterized by including:

a moving base which moves itself in the direction  
of radius of a disc-formed recording medium set on a disc  
table;

15 an objective lens driver disposed on the moving  
base;

a plurality of light-emitting elements differed in  
type, each of which emits, towards a plurality of disc-  
formed recording media differed in type, laser beam of a  
20 wavelength of approximately 405 nm, approximately 660 nm  
or approximately 780 nm corresponded to each of said  
disc-formed media;

an objective lens which condenses each laser beam  
onto a recording surface of the disc-formed recording  
25 medium; and

a light-receiving element which receives the laser  
beam emitted from said light-emitting elements, and  
characterized in that:

said objective lens condenses the laser beam onto  
30 the recording surface of the disc-formed recording medium  
to thereby form an elliptic beam spot;

a long axis of a beam spot of said laser beam having a wavelength of approximately 660 nm is aligned in a direction  $45^{\circ}$  to  $65^{\circ}$  away from a tangential direction of the disc-formed recording medium; and

5        a long axis of a beam spot of said laser beam having a wavelength of approximately 405 nm is aligned in a direction  $25^{\circ}$  to  $45^{\circ}$  away from the tangential direction of the disc-formed recording medium.

10        4. The disc drive apparatus as claimed in Claim 3, characterized in that a long axis of a beam spot of said laser beam having a wavelength of approximately 780 nm is aligned in a direction  $45^{\circ}$  to  $65^{\circ}$  away from the tangential direction of the disc-formed recording medium.